

10/009792

Fig. 1

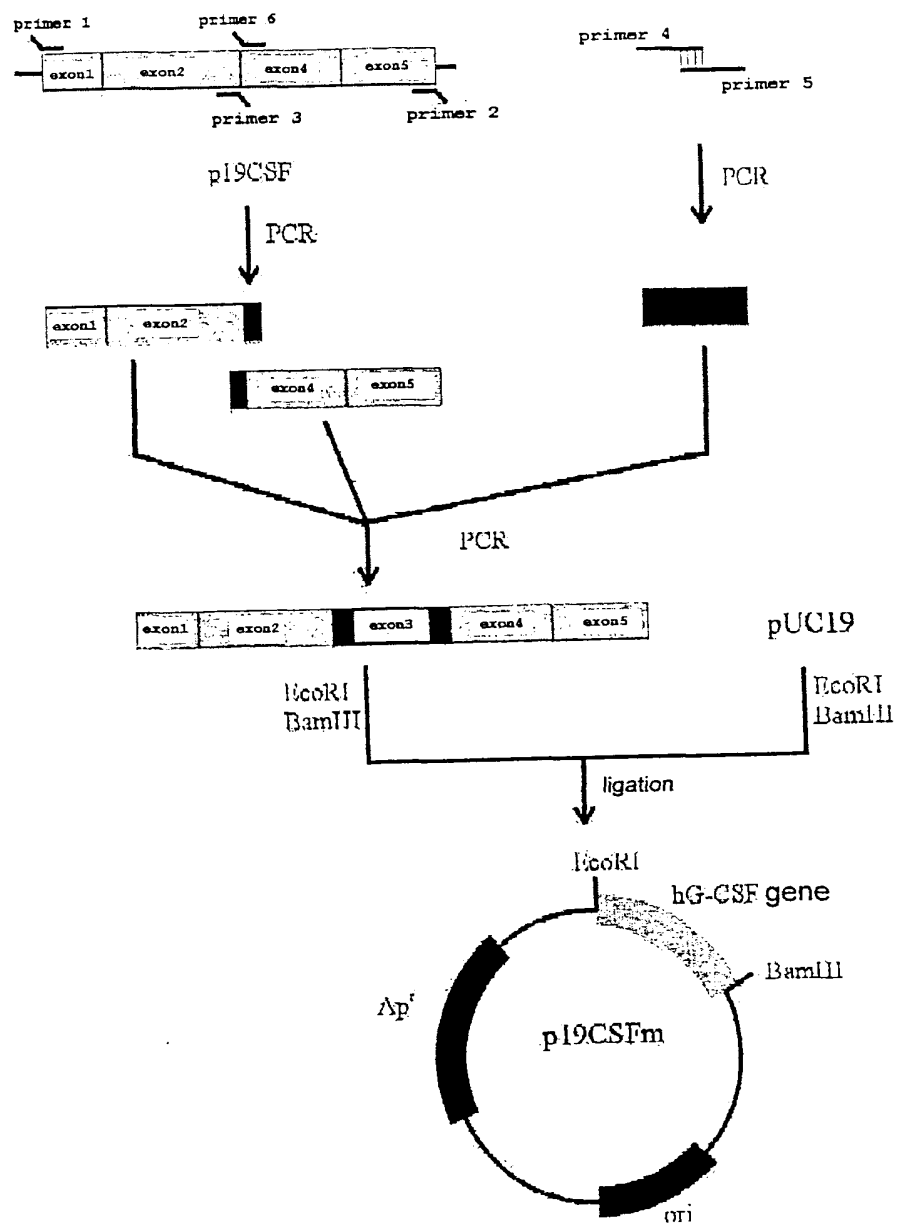
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1  ATG GCT GGA CCT GCC ACC CAG AGC CCC ATG AAG CTG ATG GCC CTG 45
46 CAG CTG CTG CTG TGG AGT GCA CTC TGG ACA GTG CAG GAA GCC ACC 90
91 CCC CTG GGC CCT GCC AGC TCC CTG CCC CAG AGC TTC CTG CTC AAG 135
136 TGC TTA GAG CAA GTG AGG AAG ATC CAG GGC GAT GGC GCA GCG CTC 180
181 CAG GAG AAG CTG GCA GGC TGC TTG AGC CAA CTC CAT AGC GGC CTT 225
226 TTC CTC TAC CAG GGG CTC CTG CAG GCC CTG GAA GGG ATC TCC CCC 270
271 GAG TTG GGT CCC ACC TTG GAC ACA CTG CAG CTG GAC GTC GCC GAC 315
316 TTT GCC ACC ACC ATC TGG CAG CAG ATG GAA GAA CTG GGA ATG GCC 360
361 CCT GCC CTG CAG CCC ACC CAG GGT GCC ATG CCG GCC TTC GCC TCT 405
406 GCT TTC CAG CGC CGG GCA GGA GGG GTC CTA GTT GCC TCC CAT CTG 450
451 CAG AGC TTC CTG GAG GTG TCG TAC CGC GTT CTA CGC CAC CTT GCC 495
496 CAG CCC TAA TAA

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stop codon (see: SEQ ID NO: 17)

Fig. 2



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Fig. 3

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-30                                     -16
1  ATG GCT GGA CCT GCC ACC CAG AGC CCC ATG AAG CTG ATG GCC CTG 45

-15                                     -1  +1
46 CAG CTG CTG CTG TGG AGT GCA CTC TGG ACA GTG CAG GAA GCC ACC 90
    Thr

2                                     16
91 CCC CTG GGC CCT GCC AGC TCC CTG CCC CAG AGC TTC CTG CTC AAG 135
    Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys

17                                     31
136 TGC TTA GAG CAA GTG AGG AAG ATC CAG GGC GAT GGC GCA GCG CTC 180
    Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu

32                                     46
181 CAG GAG AAG CTG TGT GCC ACC TAC AAG CTG TGC CAC CCC GAG GAG 225
    Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu

47                                     61
226 CTG GTG CTG CTC GGA CAC TCT CTG GGC ATC CCC TGG GCT CCC CTG 270
    Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu

62                                     76
271 AGC AGC TGC CCC AGC CAG GCC CTG CAG CTG GCA GGC TGC TTG AGC 315
    Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser

77                                     91
316 CAA CTC CAT AGC GGC CTT TTC CTC TAC CAG GGG CTC CTG CAG GCC 360
    Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala

92                                     106
361 CTG GAA GGG ATC TCC CCC GAG TTG GGT CCC ACC TTG GAC ACA CTG 405
    Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu

107                                    121
406 CAG CTG GAC GTC GCC GAC TTT GCC ACC ACC ATC TGG CAG CAG ATG 450
    Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met

122                                    136
451 GAA GAA CTG GGA ATG GCC CCT GCC CTG CAG CCC ACC CAG GGT GCC 495
    Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala

137                                    151
496 ATG CCG GCC TTC GCC TCT GCT TTC CAG CGC CGG GCA GGA GGG GTC 540
    Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val

152                                    166
541 CTA GTT GCC TCC CAT CTG CAG AGC TTC CTG GAG GTG TCG TAC CGC 585
    Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg

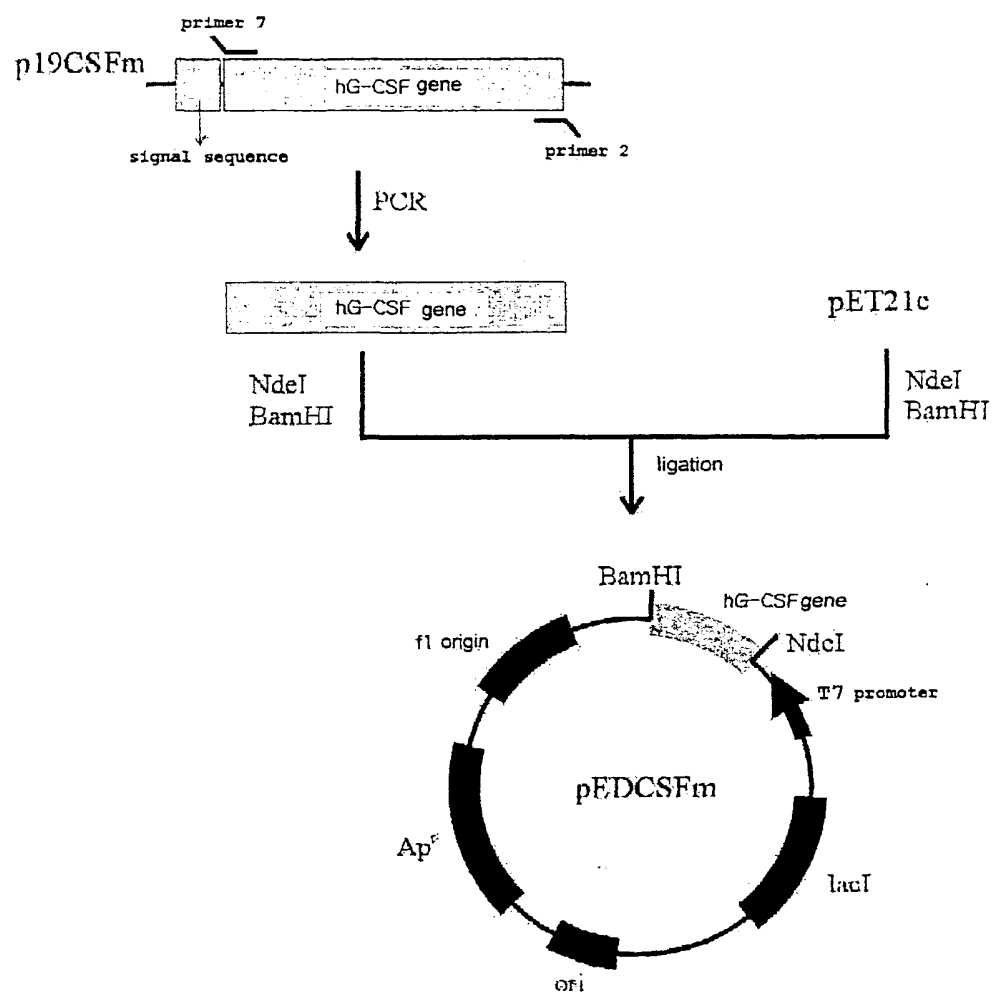
167                                    174
586 GTT CTA CGC CAC CTT GCC CAG CCC TAA TAA 616
    Val Leu Arg His Leu Ala Gln Pro stop codon

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(see: SEQ ID NO: 18)

(see: SEQ ID NO: 19)

Fig. 4



10/009797

Fig. 5

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1      15
1 ATG ACC CCC CTG GGC CCT GCC AGC TCC CTG CCC CAG AGC TTC CTG 45
  Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu

16      30
46 CTC AAG TGC TTA GAG CAA GTG AGG AAG ATC CAG GGC GAT GGC GCA 90
  Leu Lys Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala

31      45
91 GCG CTC CAG GAG AAG CTG TGT GCC ACC TAC AAG CTG TGC CAC CCC 135
  Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro

46      60
136 GAG GAG CTG GTG CTG CTC GGA CAC TCT CTG GGC ATC CCC TGG GCT 180
  Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala

61      75
181 CCC CTG AGC AGC TGC CCC AGC CAG GCC CTG CAG CTG GCA GGC TGC 225
  Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys

76      90
226 TTG AGC CAA CTC CAT AGC GGC CTT TTC CTC TAC CAG GGG CTC CTG 270
  Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu

91      105
271 CAG GCC CTG GAA GGG ATC TCC CCC GAG TTG GGT CCC ACC TTG GAC 315
  Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp

106     120
316 ACA CTG CAG CTG GAC GTC GCC GAC TTT GCC ACC ACC ATC TGG CAG 360
  Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln

121     135
361 CAG ATG GAA GAA CTG GGA ATG GCC CCT GCC CTG CAG CCC ACC CAG 405
  Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln

136     150
406 GGT GCC ATG CCG GCC TTC GCC TCT GCT TTC CAG CGC CGG GCA GGA 450
  Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly

151     165
451 GGG GTC CTA GTT GCC TCC CAT CTG CAG AGC TTC CTG GAG GTG TCG 495
  Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser

166     175
496 TAC CGC GTT CTA CGC CAC CTT GCC CAG CCC TAA TAA 531
  Tyr Arg Val Leu Arg His Leu Ala Gln Pro stop codon

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(see: SEQ ID NO: 20)

(see: SEQ ID NO: 21)

Fig. 6

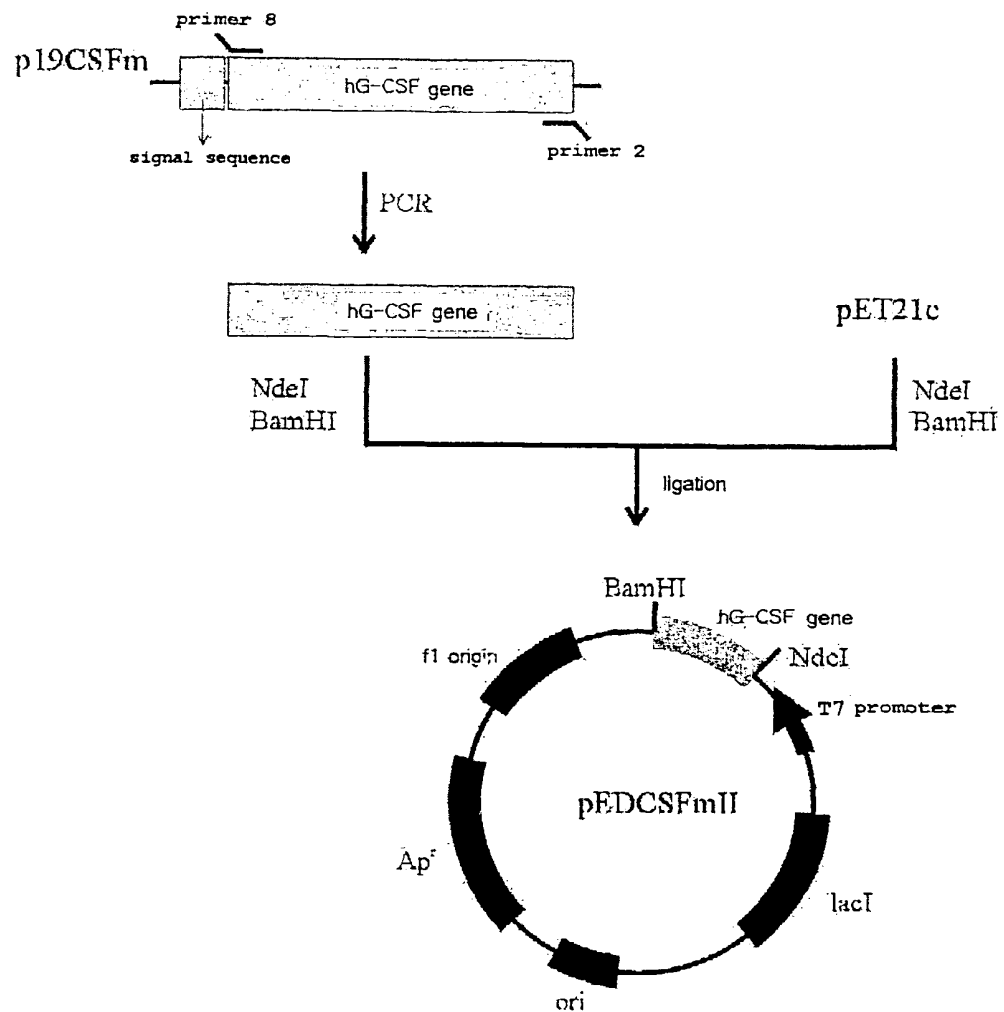
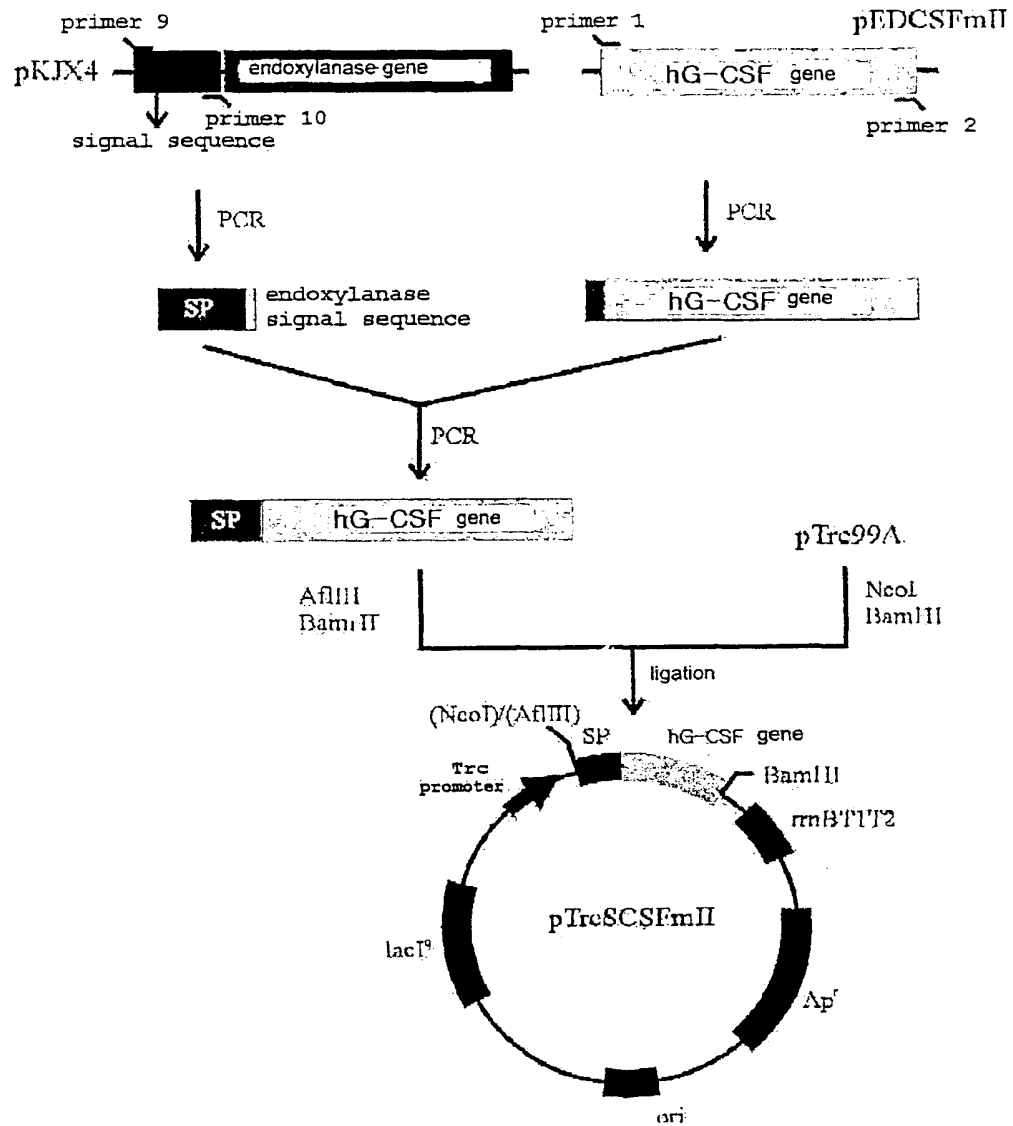




Fig. 8





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Fig. 9

-28 -14  
 1 ATG TTT AAG TTT AAA AAG AAA TTC TTA GTG GGA TTA ACG GCA GCT 45  
 Met Phe Lys Phe Lys Lys Lys Phe Leu Val Gly Leu Thr Ala Ala  
 -13 -1 +1 2  
 46 TTC ATG AGT ATC AGC ATG TTT TCT GCA ACC GCC TCT GCA ACT CCG 90  
 Phe Met Ser Ile Ser Met Phe Ser Ala Thr Ala Ser Ala Thr Pro  
 3 17  
 91 TTA GGT CCA GCC AGC TCC CTG CCC CAG AGC TTC CTG CTC AAG TGC 135  
 Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys

(see: SEQ ID NO: 24)

(see: SEQ ID NO: 25)

Fig. 10

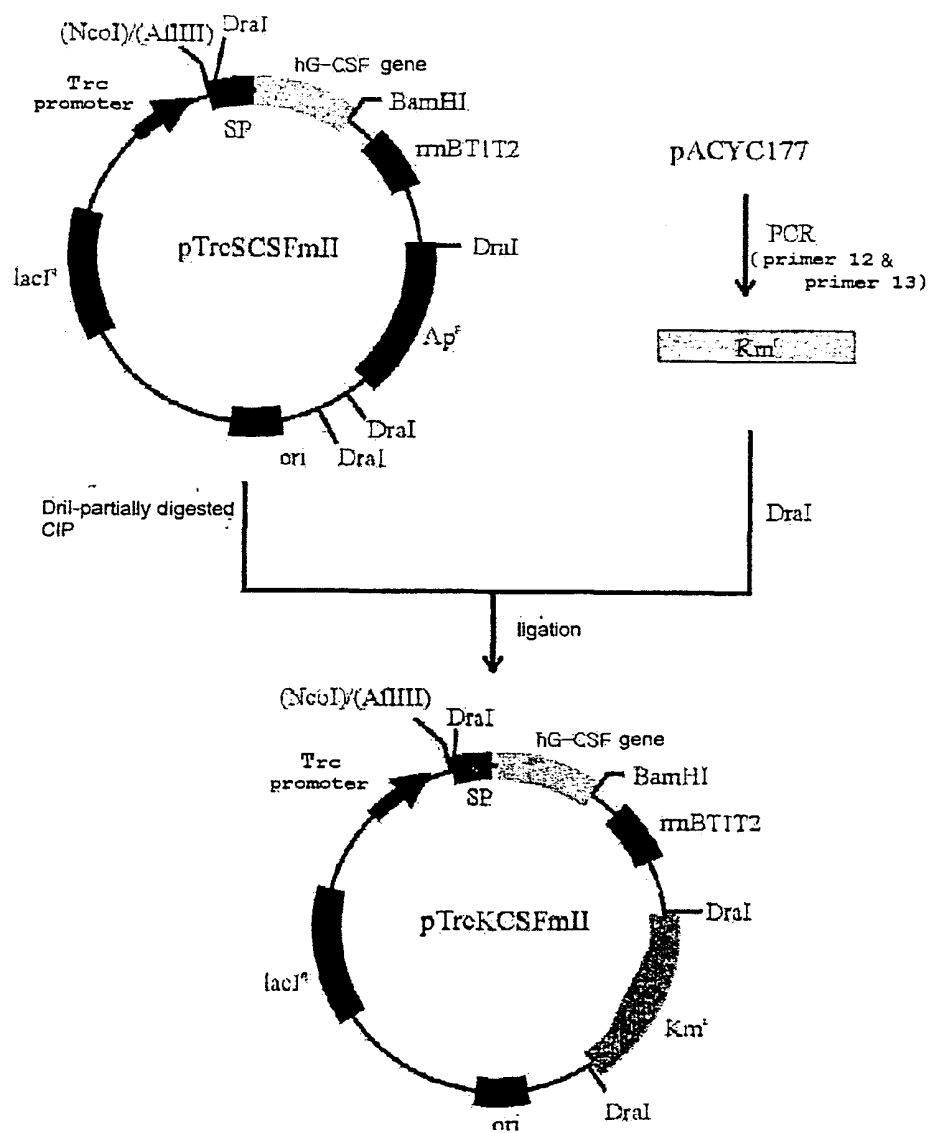


Fig. 11

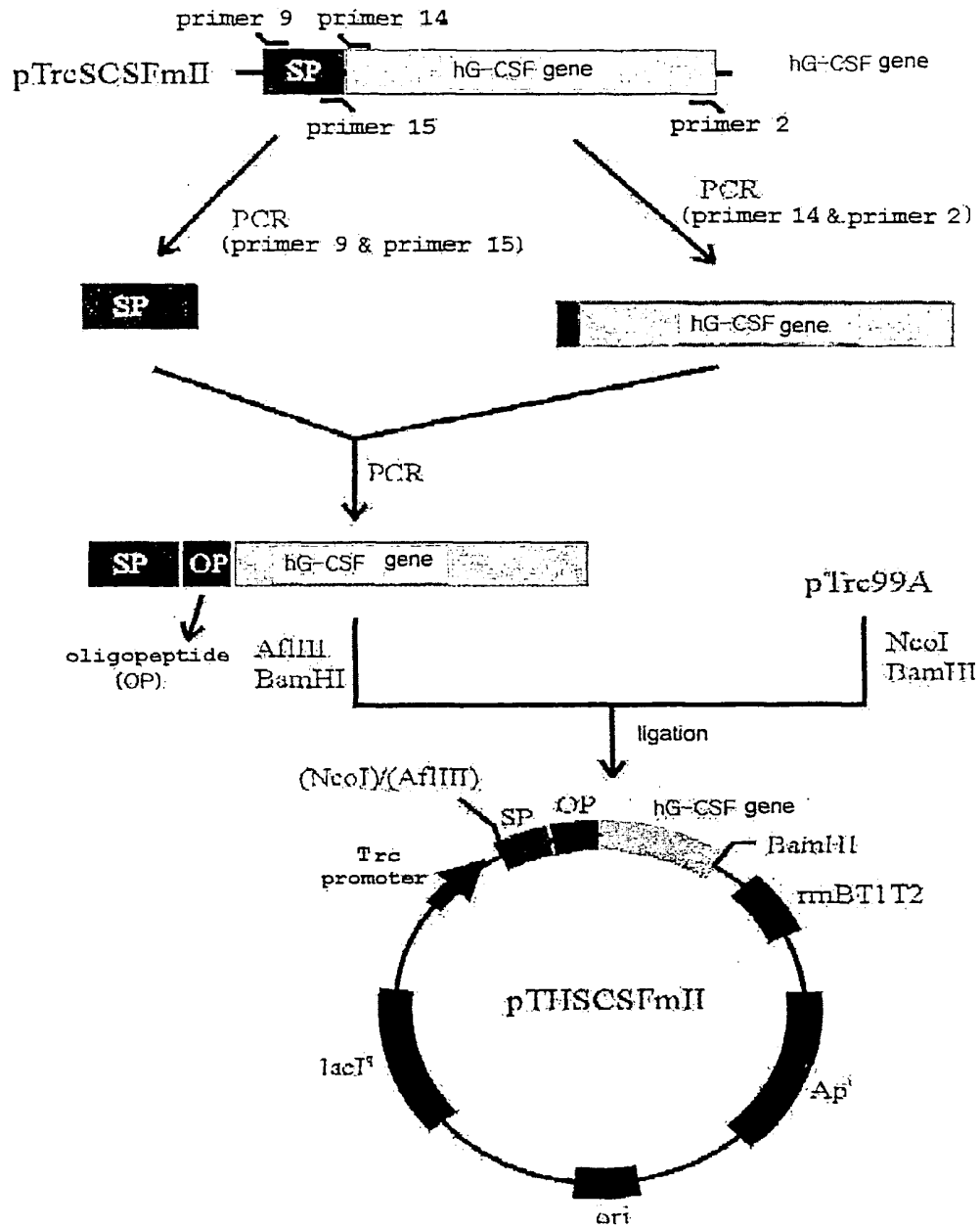


Fig. 12

-28 -14  
 1 ATG TTT AAG TTT AAA AAG AAA TTC TTA GTG GGA TTA ACG GCA GCT 45  
 Met Phe Lys Phe Lys Lys Lys Phe Leu Val Gly Leu Thr Ala Ala  
 -13 -1 +1 2  
 46 TTC ATG AGT ATC AGC ATG TTT TCT GCA ACC GCC TCT GCA GCT GGC 90  
 Phe Met Ser Ile Ser Met Phe Ser Ala Thr Ala Ser Ala Ala Gly  
 3 17  
 91 CCG CAC CAT CAC CAT CAC CAT ATC GAG GGA AGG ACT CCG TTA GGT 135  
 Pro His His His His His His Ile Glu Gly Arg Thr Pro Leu Gly  
 18 32  
 136 CCA GCC AGC TCC CTG CCC CAG AGC TTC CTG CTC AAG TGC TTA GAG 180  
 Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu Glu

(see: SEQ ID NO: 26)

(see: SEQ ID NO: 27)

Fig. 13

